

three inches = one foot
one and one half inch = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

STEAM TO WATER HEAT EXCHANGER SCHEDULE												
HX NO	SERVICE	WATER SIDE						STEAM SIDE		CONDENSATE SIDE	TYPE	MANUFACTURER / MODEL (BASIS OF DESIGN)
		MBH	GPM	EWT (°F)	LWT (°F)	MAX WPD (FT)	WATER TYPE	INITIAL PRESSURE (PSI)	LBS / HR	TRAP CAPACITY (LBS / HR)		
HX-1	HEATING WATER	182	18.2	160	180	5	FW	40	194.3	582.0	SHELL & TUBE	BELL & GOSSETT SU4-2-2

MISCELLANEOUS HEATING UNIT SCHEDULE												
DESIG	CFM	BTU / HR	FAN MOTOR				MAX WPD (FT)	GPM	EWT (°F)	LWT (°F)	EAT (°F)	MANUFACTURER / MODEL (BASIS OF DESIGN)
			HP	VOLTS	PHASE	CYCLE						
CH-1	430	21,000	1/10	120	1	60	5	2.1	180	160	60	VULCAN F-1020-04
CONV-1	-	5,000	N / A				5	0.5	180	160	60	VULCAN FS-A 36x24x6

AIR DEVICE SCHEDULE								
DESIG	DUTY	SIZE (IN)	CFM RANGE	INLET/ NECK SIZE (IN)	MAX SP	MAX NC	DESCRIPTION	MANUFACTURER / MODEL (BASIS OF DESIGN)
A	EXHAUST	10 x 10	0 - 295	10 x 10	0.06"	20	FIXED LOUVER - 35° DEFLECTION 3/4" SPACING - REGISTER	TITUS 350 FL
B	EXHAUST	14x14	441-610	12x12	0.06"	20	FIXED LOUVER - 35° DEFLECTION 3/4" SPACING - REGISTER	TITUS 350 FL

MECHANICAL EQUIPMENT SCHEDULE					
DESCRIPTION	CAPACITY	HP / KW	VOLTS/ PHASE	OPERATING WEIGHT (LBS)	MANUFACTURER / MODEL (BASIS OF DESIGN)
CHILLED WATER AIR SEPARATOR	2"	N/A	N/A	-	BELL & GOSSETT
CHILLED WATER EXPANSION TANK	7 GAL TANK VOL 4 GAL ACCEPTANCE VOL	N/A	N/A	-	BELL & GOSSETT
HEATING WATER AIR SEPARATOR	2"	N/A	N/A	-	BELL & GOSSETT
HEATING WATER EXPANSION TANK	12 GAL TANK VOL 7 GAL ACCEPTANCE VOL	N/A	N/A	-	BELL & GOSSETT

FAN COIL UNIT SCHEDULE																							
DESIG	TOTAL CFM	OA CFM	FAN MOTOR		COOLING COIL DATA										HEATING COIL DATA								TYPE
			AMPS	VOLTS / PHASE	TOTAL BTU / HR	SENS BTU / HR	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	GPM @ 10° ΔT	EWT (°F)	LWT (°F)	MAX WPD (°F)	MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM @ 20° ΔT	MAX WPD (°F)		
FCU-1-1	385	86	1.8	120/1	13.5	8.7	79.6	68.7	58.6	57.7	2.70	44	54	2.5	14.8	54.5	90.0	180	160	1.48	1.5	FLOOR MOUNTED	
FCU-1-2	385	86	1.8	120/1	13.5	8.7	79.6	68.7	58.6	57.7	2.70	44	54	2.5	14.8	54.5	90.0	180	160	1.48	1.5	FLOOR MOUNTED	
FCU-2	165	20	0.8	120/1	5.6	3.3	77.0	68.5	58.1	57.4	1.00	44	54	2.5	4.8	62.9	90.0	180	160	0.48	1.5	FLOOR MOUNTED	
FCU-3	155	15	0.8	120/1	5.1	3.1	77.0	68.2	58.5	57.8	1.10	44	54	2.5	4.5	62.9	90.0	180	160	0.45	1.5	FLOOR MOUNTED	
FCU-4	155	15	0.8	120/1	5.0	3.0	76.9	68.2	58.5	57.8	1.00	44	54	2.5	4.5	63.0	90.0	180	160	0.45	1.5	FLOOR MOUNTED	
FCU-5	160	20	0.8	120/1	5.2	3.1	76.7	68.0	58.1	57.4	1.00	44	54	2.5	4.7	62.8	90.0	180	160	0.47	1.5	FLOOR MOUNTED	
FCU-6-1	125	10	0.8	120/1	3.8	2.4	76.7	67.6	58.5	57.7	0.76	44	54	2.5	3.4	64.7	90.0	180	160	0.34	1.5	FLOOR MOUNTED	
FCU-6-2	125	10	0.8	120/1	3.8	2.4	76.7	67.6	58.5	57.7	0.76	44	54	2.5	3.4	64.7	90.0	180	160	0.34	1.5	FLOOR MOUNTED	
FCU-7	105	20	0.8	120/1	4.0	2.3	78.9	69.9	58.5	57.8	0.80	44	54	2.5	3.8	56.5	90.0	180	160	0.38	1.5	FLOOR MOUNTED	
FCU-8	85	15	0.8	120/1	3.5	1.8	78.1	70.1	58.0	57.4	0.70	44	54	2.5	2.9	58.4	90.0	180	160	0.29	1.5	FLOOR MOUNTED	
FCU-9-1	370	110	1.8	120/1	14.2	9.0	81.2	69.6	58.6	57.6	2.4	44	54	2.5	12.2	49.6	90.0	180	160	1.94	1.5	FLOOR MOUNTED	
FCU-9-2	370	110	1.8	120/1	14.2	9.0	81.2	69.6	58.6	57.6	2.4	44	54	2.5	12.2	49.6	90.0	180	160	1.94	1.5	FLOOR MOUNTED	
FCU-9-3	370	110	1.8	120/1	14.2	9.0	81.2	69.6	58.6	57.6	2.4	44	54	2.5	12.2	49.6	90.0	180	160	1.94	1.5	FLOOR MOUNTED	
FCU-9-4	370	110	1.8	120/1	14.2	9.0	81.2	69.6	58.6	57.6	2.4	44	54	2.5	12.2	49.6	90.0	180	160	1.94	1.5	FLOOR MOUNTED	
FCU-9-5	370	110	1.8	120/1	14.2	9.0	81.2	69.6	58.6	57.6	2.4	44	54	2.5	12.2	49.6	90.0	180	160	1.94	1.5	FLOOR MOUNTED	
FCU-9-6	370	110	1.8	120/1	14.2	9.0	81.2	69.6	58.6	57.6	2.4	44	54	2.5	12.2	49.6	90.0	180	160	1.94	1.5	FLOOR MOUNTED	
FCU-10	150	25	0.8	120/1	5.3	3.0	77.9	69.2	58.5	57.8	1.10	44	54	2.5	4.8	60.2	90.0	180	160	0.48	1.5	FLOOR MOUNTED	
FCU-11	95	15	0.8	120/1	3.5	1.9	77.6	69.4	58.1	57.5	0.70	44	54	2.5	3.2	59.0	90.0	180	160	0.32	1.5	FLOOR MOUNTED	
FCU-12	105	25	0.8	120/1	4.2	2.3	79.1	70.4	58.5	57.8	0.84	44	54	2.5	3.9	55.5	90.0	180	160	0.39	1.5	FLOOR MOUNTED	

NOTES: 1. SELECT FAN COIL UNITS AT MEDIUM SPEED.
2. FAN COIL UNITS SHALL BE SLOPED TOP TYPE.

PACKAGED AIR-COOLED CHILLER SCHEDULE													
UNIT NO	TONS	MBH	GPM	EWT (°F)	LWT (°F)	MAX WPD (FT)	OUTDOOR AMBIENT	FLUID TYPE	VOLT/ PHASE	SIZE L X W X H	OPERATING WEIGHT (LBS)	MANUFACTURER / MODEL (BASIS OF DESIGN)	REMARKS
ACC-1	13.1	157.5	31.5	54	44	10	95	FW	208/3	74" x 47" x 51"	1200	MCQUAY / TRANE	-

FAN SCHEDULE														
FAN NO	LOCATION	CFM	ESP (IN)	MOTOR				RPM	MIN FAN DIA	WHEEL TYPE	CLASS	DRIVE TYPE	METHOD OF CONTROL	MANUFACTURER / MODEL (BASIS OF DESIGN)
				HP	MAX BHP	VOLTS	PHASE							
EF-1	ROOF	400	0.5	1/4	-	120	1	1,114	8"	BI	I	BELT	ATC	GREENHECK GB-081
EF-2	MECH RM WALL	270	0.3	1/30	-	120	1	1,650	10"	PROP	I	DIRECT	ATC	GREENHECK SE1-10
EF-3	ROOF	460	0.3	1/6	-	120	1	1,359	9"	BI	I	DIRECT	ATC	GREENHECK G-090

PUMP SCHEDULE												
DESIG.	SERVICE	LOCATION	GPM	HEAD (FT)	MOTOR				RPM	CONTROL	MANUFACTURER / MODEL (BASIS OF DESIGN)	TYPE
					HP	MAX BHP	VOLTS	PHASE				
CWP-1	CHILLED WATER	M/E ROOM	31.5	49	1.5	1.1	208	3	1725	ATC	BELL & GOSSETT SERIES 90	IN-LINE
CWP-1A	CHILLED WATER	M/E ROOM	31.5	49	1.5	1.1	208	3	1725	ATC	BELL & GOSSETT SERIES 90	IN-LINE (STAND-BY FOR CWP-1)
HWP-1	HEATING WATER	M/E ROOM	19.6	38	0.75	0.5	208	3	1725	ATC	BELL & GOSSETT SERIES 90	IN-LINE
HWP-1A	HEATING WATER	M/E ROOM	19.6	38	0.75	0.5	208	3	1725	ATC	BELL & GOSSETT SERIES 90	IN-LINE (STAND-BY FOR HWP-1)

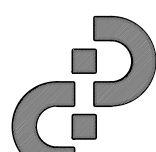
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Approved: Associate Director for Operations:

Drawing Finish Date:

Approved: Chief, Facilities Engineer:

Drawing Approved:

Approved: Director, Medical Center:

Project Title:

REPLACE BUILDING
6 HVAC

Date:

07/09/2012

Project No:

460-12-204

Building No:

6

Checked:

SMM

Drawn:

CCH

DRAWING NO:

M-7

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DEPARTMENT OF
VETERANS AFFAIRS

BKMF# 070360.090

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